

Complex Gate (Design 1 and 2)				Simple Gate (Design 0)			
		Concentration [ng/μl]	Size [bp]			Concentration [ng/μl]	Size [bp]
Plasmid pCYC (p4)		47,2	5477	Plasmid pCYC (p4)		47,2	5477
CYC1 part 1		25	500	CYC1 part 1		25	500
CYC1 part 2		25	487	CYC1 part 2		25	487
CYC2		10	707	CYC2 from PCR		63,8	737
CYC3		25	707				
Number of inserts		4		Number of inserts		3	
Mass of Vector [ng]		180		Mass of Vector [ng]		180	
Moles of Vector [pmoles]		0,05056108763		Moles of Vector [pmoles]		0,05056108763	
Moles of Insert [pmoles]		0,05056108763		Moles of Insert [pmoles]		0,05056108763	
Total Number of moles		0,2528054381		Total Number of moles		0,2022443505	
Mass of CYC1-1		16,43235348		Mass of CYC1-1		16,43235348	
Mass of CYC1-2		16,00511229		Mass of CYC1-2		16,00511229	
Mass of CYC2		23,23534782		Mass of CYC2		24,22128903	
Mass of CYC3		23,23534782					
Volume of Vector		3,813559322		Volume of Vector		3,813559322	
Volume of CYC1-1		0,9859412087	Dilution 1:1.5	Volume of CYC1-1		0,9859412087	Dilution 1:1.5
Volume of CYC1-2		0,9603067373	Dilution 1:1.5	Volume of CYC1-2		0,9603067373	Dilution 1:1.5
Volume of CYC2		2,323534782		Volume of CYC2		1,138932086	Dilution 1:3
Volume of CYC3		0,9294139127					
Total volume		9,012755963		Total volume		6,898739354	
Volume of MasterMix		8		Volume of MasterMix		8	
Total volume of the reaction		17		Total volume of the reaction		16	
Volume of H2O		-0,01275596253		Volume of H2O		1,101260646	